Figure 2C shows schematically an introduction of the rod of Figure 1 so as to end up in the last compartment of the containment enclosure.

Figure 3A shows ~~Figures 3 show~~ in a perspective view an element for introducing the pellets into a cladding, intended for the implementation of the invention.

Figure 3B shows example embodiments of longitudinal and transverse grooves and gas nozzles G.

Figures 4A to 4F show in a plan view the different steps of a sequence of loading successive columns of pellets into the cladding, for one implementation of the invention. Figure 4A also shows a mechanism for driving a pushing device with limited force. By way of example, Figures 4A to 4F show the loading of two successive columns "a" and "b", deep into a cladding 2 using a long pushing device 53.

In the different figures, the same reference notations designate identical or similar elements.

Description of the invention

A rod 1 (Figure 1) to which the invention relates can comprise, as already mentioned and as is known, a cladding 2 plugged at one end by a first plug 3 and at the other end by a second plug 4. Between these plugs 3 and 4 there can be enclosed in the cladding 2 pellets 6, a spring 7 and structural components, like one or more inset elements 5.

The device and the method for manufacturing non-contaminated MOX fuel rods 1, from pellets 6, the object of the invention, are explained jointly in the present description on account of their complete mutual interweaving.